

1999 Annual Report

Table of Contents

Center Director's Statement	01
A Cornerstone of Safety	02
A Framework for Tomorrow The International Space Station	05
Moving Heaven and Earth The Space Shuttle Spacewalks	
Training the Explorers	····· 12
Frontiers of Technology Research and Development	16
Strengthening Ties Community Involvement	25
Building Tomorrow Educational Involvement	29
Financials ·····	32

he past year was one of great achievement for the Johnson Space Center. From launching the initial elements of the International Space Station to making historic discoveries in research, it was a year of unprecedented accomplishment.

After years of planning and hard work, the International Space Station is now a reality, visible in the sky above. In the coming years, we will see this orbiting outpost grow significantly as on-orbit assembly continues.

The Space Shuttle Program concluded another

year of safe and successful missions. Upgrades to the Shuttle system will

ensure that the spacecraft continues its unparalleled record of safety

and success.

JSC's continued emphasis
on safety has reaped
benefits in space and in the
workplace. In May, following
a 2-week on-site audit,
representatives from the
Occupational Safety and Health
Administration recommended the
Center for Voluntary Protection
Program Star work site status. Earning

OSHA's highest award marked the culmination of months of intensive preparation on the part of all employees.

We made strides in technology development. Our scientists and engineers achieved advances in nanotube technology, in innovative medical applications, and in spacesuit design and life-support systems development. They took the *X-38* and *TransHab* prototypes through advanced stages of development and testing.

JSC scientists found liquid water in an ancient meteorite, the first discovery of its kind and an indication that life may exist beyond our planet. The National Space Biomedical Research Institute investigators continued to develop techniques to control the human physiological problems associated with long-duration space flight.

Our White Sands Test Facility again had an outstanding year of performance, providing a wide variety of research,

test, and development support to NASA

centers, the Department of Defense,

other government agencies, and

private industry.

Our efforts to work with the community and to open the Center to the public were met with enthusiasm. Our Open House and NASA Johnson Space Center Inspection set attendance records.

I am proud to present the 1999 Annual Report of the Johnson Space Center. It demonstrates

the hard work, devotion, extraordinary

talent, and exceptional teamwork that continue to produce the important accomplishments that prepare us for the future. As we enter the new century, we will continue to improve life on Earth through the human enterprise of space exploration.

George W. S. abbey

George W.S. Abbey